

CLAIMS:

1. A vehicular screen antenna adapted to be fitted to a vehicle so as to extend generally vertically, the antenna comprising a conductor extending on a dielectric, the conductor being configured as a loop having entry and exit segments that extend proximate each other from the loop towards an edge of the dielectric and are oriented on the dielectric so as to extend generally vertically when the dielectric is fitted to the vehicle, wherein during use of the antenna, a horizontally-polarized component of a linearly-polarized signal on the antenna has a magnitude at least approximating that of a vertically-polarized component of the signal.
2. The screen antenna as in claim 1, wherein the entry and exit segments join the loop proximate each other and proximate a corner of the loop.
3. The screen antenna as in claim 1, wherein, when the dielectric is fitted to the vehicle, the said edge of the dielectric is a bottom edge.
4. The screen antenna as in claim 2, wherein, when the dielectric is fitted to the vehicle, the said edge of the dielectric is a bottom edge, and the corner of the loop is a bottom corner.

5. The screen antenna as in any preceding claim, wherein the dielectric is a window of the vehicle.

6. The screen antenna as in any preceding claim, wherein at the said edge of the dielectric the entry segment is adapted to connect to a feedline, and the exit segment is adapted to connect to vehicle ground.

7. The screen antenna as in any one of claims 1 to 5, wherein at the said edge of the dielectric the entry segment is adapted to connect to a feedline, and the exit segment connects to a stub segment that extends generally parallel to the first edge of the dielectric for capacitive coupling to vehicle ground.

8. The screen antenna as in claim 7, wherein the stub segment is adapted to extend with separation distance less than approximately 5mm from a vehicle ground surface proximate the said edge of the dielectric.

9. The screen antenna as in claim 8, wherein the length of the stub segment and its separation distance from the vehicle ground surface are selected such that the stub segment is able to receive low-frequency broadcast signals.

10. The screen antenna as in any one of claims 1 to 5, wherein at the said edge of the dielectric the entry

segment is adapted to connect to a feedline, and the exit segment is adapted to connect to one end of resonator circuitry the other end of which connects to vehicle ground.

11. The screen antenna as in claim 10, wherein the resonator circuitry is a discrete electronic circuit comprising an inductor means and a capacitor means connected in series.

12. The screen antenna as in claim 10 or 11, wherein the resonator circuitry also includes a tuning means.

13. The screen antenna as in any preceding claim, wherein the antenna also comprises a switch means for disconnecting the exit segment from a signal ground and connecting it instead to the entry segment.

14. The screen antenna as in any preceding claim, wherein the loop has a generally rectilinear configuration.

15. The screen antenna as in any preceding claim, wherein the loop is generally configured as a rectangle having its longer sides extending generally horizontally when the dielectric is fitted to the vehicle.

16. The screen antenna as in any preceding claim, wherein, when the dielectric is fitted to the vehicle, the loop extends at between approximately 50mm and approximately 100mm from the edges of the dielectric.

17. The screen antenna as in any preceding claim, wherein the loop is positioned generally centrally on the dielectric.

18. The screen antenna as in any preceding claim, wherein the dielectric is a rear window or rear quarter window of a station-wagon type of vehicle.

19. The screen antenna as in claim 17, wherein a signal feedline connectable to the entry segment is positioned on the body of the vehicle so as to be below a body aperture adapted to receive the respective rear window or rear quarter window and so as to be proximate a corner of the vehicle body.